

## STANDARD FOR CONCRETE WEIGH PITS

### 1. CONCRETE

This standard covers the construction of the concrete weigh pit and fabrication and assembly of the swing arm barrier. All work is to be executed in accordance with the drawings, specifications and other conditions of contract.

### 2. SCOPE

#### 2.1 General

All concrete shall be in accordance with NZS 3109: 1980 with a minimum compressive strength of 20 MPa at 28 days.

A blinding layer of 30 micron thick polythene shall be placed under cast in situ concrete ramps, apron and weigh pit recess.

#### 2.2 Construction Joints

All construction joints shall be Type A as described in NZS 3109: 1980 and only in the location shown on the drawings. Every second bar crossing the joint shall be terminated 50mm each side of joint.

#### 2.3 Surface Finishes

All visible surfaces shall have a smooth finish in accordance with class U2 of NZS 3114: 1980.

#### 2.4 Tolerances

Weigh pit recess height	+2mm -3mm
Ramps, weigh pit, recess and apron top surfaces	±5mm (but not more than 5mm variation over a 3m template)

## **2.5 Reinforcement**

All reinforcement shall be welded reinforcing fabric mesh type 665 in steel of grade 485 in accordance with NZS 3422: 1975 and shall be placed in accordance with NZS 3109: 1980.

## **3. DRAINAGE**

For a crossfall of 2% away from roadway: drainage of the weigh pit recess shall be by a surface channel to a drainage ditch.

For a crossfall of 2% toward the roadway: drainage of the weigh pit recess shall be by a 100mm PVC pipe to a sump. A recessed galvanised steel grate shall cover the inlet to a 100mm diameter pipe and concrete nibs are required at each end of the weigh pit recess.

A dished channel; as shown on the drawings, shall be constructed between the weigh pit and roadway with drainage to a sump.

All drainage from the weigh pit recess, subsoil drains, dished channel and sumps shall be included in the overall drainage system for the site.

## **4. SWING ARM BARRIER**

The swing arm barrier shall be fabricated from medium steel galvanised tube to BS 1387: 1969 and steel plate to BS 4360 grade 43A.

All steel plate to be hot dip galvanised. Where galvanised coating is damaged by welding, the affected area shall be made good with two coats of zinc rich paint in accordance with specification CD 306.

## **5. BASIS OF PAYMENT**

### **Cast In Situ Concrete and Swing Arm Barrier**

This item is a lump sum and includes compliance with the specification for concrete and reinforcement, supply, handling, placement, strength, tolerance and surface finish, including the drainage details for the weigh pit recess, and the fabrication and assembly of the swing arm barrier.